

**NOTES**

1. Orthophotography supplied by Aero-Metric Engineering, Sheboygan, Wisconsin. Date of photography: April 27, 2006.
2. Horizontal datum based on NAD 83/96.  
Horizontal coordinates based on Michigan State Plane North.
3. Site Location - Project Site within Sections 2 and 11, T47N, R29W, Town of Humboldt, Marquette County, Michigan.

**LEGEND**

- Soil Sample Location - Not Sampled for Parameter
- Soil Sample Location - Sample Below Residential Drinking Water Protection Criteria ( $< 1$  mg/kg)
- Soil Sample Location - Sample Above Residential Drinking Water Protection Criteria ( $> 1$  mg/kg)



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**FIGURE 5-26**  
**HUMBOLDT MILL PROJECT - PHASE II ESA**  
**SOIL SAMPLE LOCATIONS**  
**ALUMINUM IN SOIL**

Scale: 0 150 300 Feet  
Date: AUGUST 2007  
Prepared by: DAT  
Project No: 06W003





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**LEGEND**

Soil Sample Location - Not Sampled for Parameter

Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 0.8 mg/kg)

Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 0.8 mg/kg)

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**Kennecott**  
Eagle Minerals

**FIGURE 5-27**  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
COBALT IN SOIL

Scale: 0 150 300 Feet

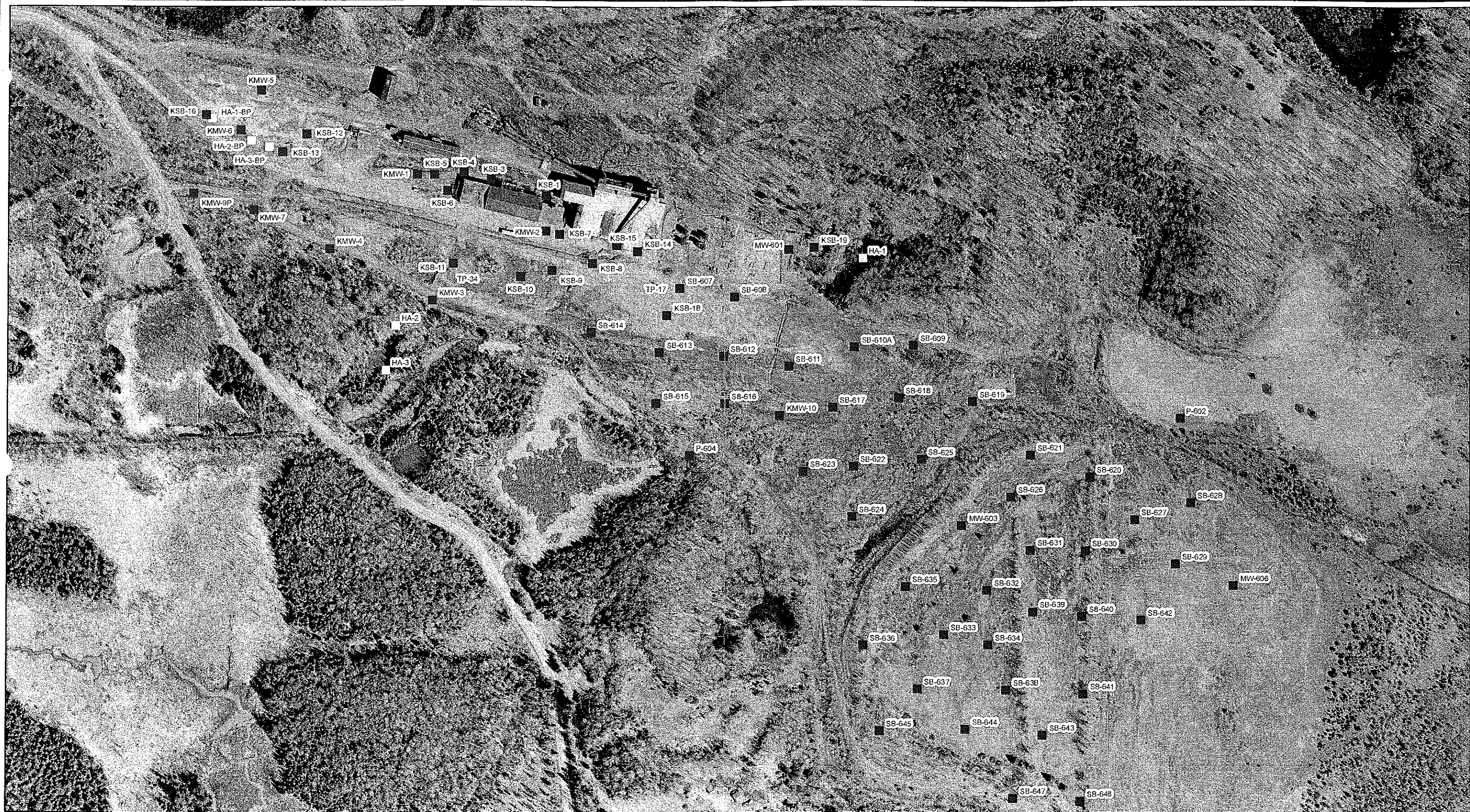
Date: AUGUST 2007

Prepared by: DAT

Project No: 06W003

M:\06w003\mxd\Phase2\kmc\_humboldt\_Sampling\_Soil\_Cobalt\_11x17.mxd August 1, 2007





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LEGEND

- Soil Sample Location - Not Sampled for Parameter
- Groundwater Monitoring Well - Sample Below Drinking Water Protection Criteria (< 6 mg/kg)
- Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 6 mg/kg)



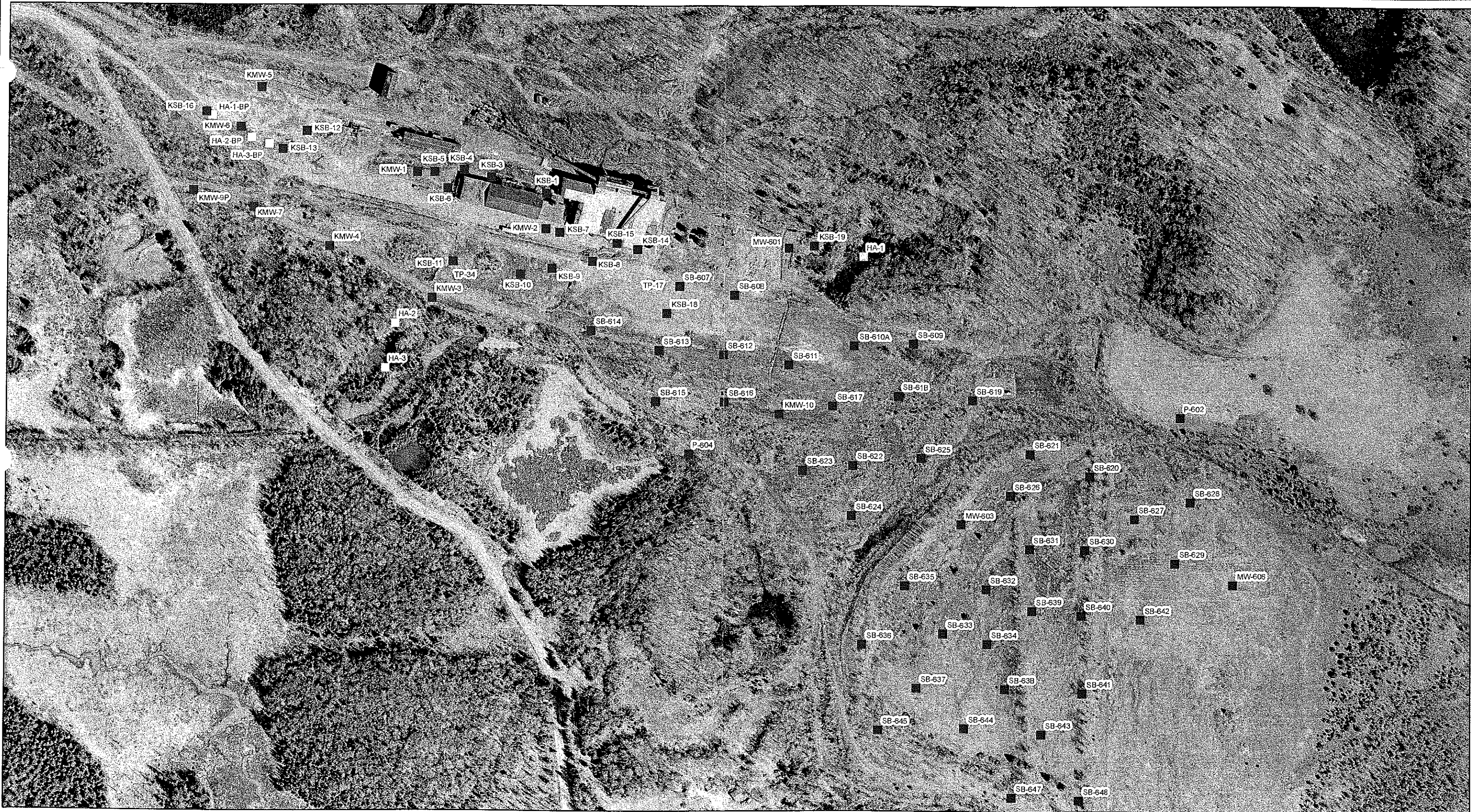
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		DATE:	



FIGURE 5-28  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
IRON IN SOIL

Scale: 0 150 300 Feet Date: AUGUST 2007  
Prepared by: DAT Project No: 06W003





NOTES

- 1. Aerial photography supplied by Aero-Metric Engineering, Oconomowoc, Wisconsin. Date of photography: April 27, 2006.
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LEGEND

- Soil Sample Location - Not Sampled for Parameter
- Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 1 mg/kg)
- Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 1 mg/kg)



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FIGURE 5-29  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
MANGANESE IN SOIL

Scale: 0 150 300 Feet  
Date: AUGUST 2007  
Prepared by: DAT  
Project No: 06W003





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**LEGEND**

Soil Sample Location - Not Sampled for Parameter

Soil Sample Location - Sample Below Drinking Water Protection Criteria ( $\leq 4.3$  mg/kg)

Soil Sample Location - Sample Above Drinking Water Protection Criteria ( $> 4.3$  mg/kg)



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**FIGURE 5-30**  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
ANTIMONY IN SOIL

Scale: 0 150 300 Feet

Date: AUGUST 2007

Prepared by: DAT

Project No: 06WD03





# NOTES

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# LEGEND

- Soil Sample Location - Not Sampled for Parameter
- Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 4.6 mg/kg)
- Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 4.6 mg/kg)



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**FIGURE 5-31**  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
ARSENIC IN SOIL

Scale: 0 150 300 Feet

Date: AUGUST 2007

Prepared by: DAT

Project No: 06W003





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**LEGEND**

■ Soil Sample Location - Not Sampled for Parameter

■ Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 10 mg/kg)

■ Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 10 mg/kg)



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**Kennecott**  
Eagle Minerals

**FIGURE 5-32**  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
BORON IN SOIL

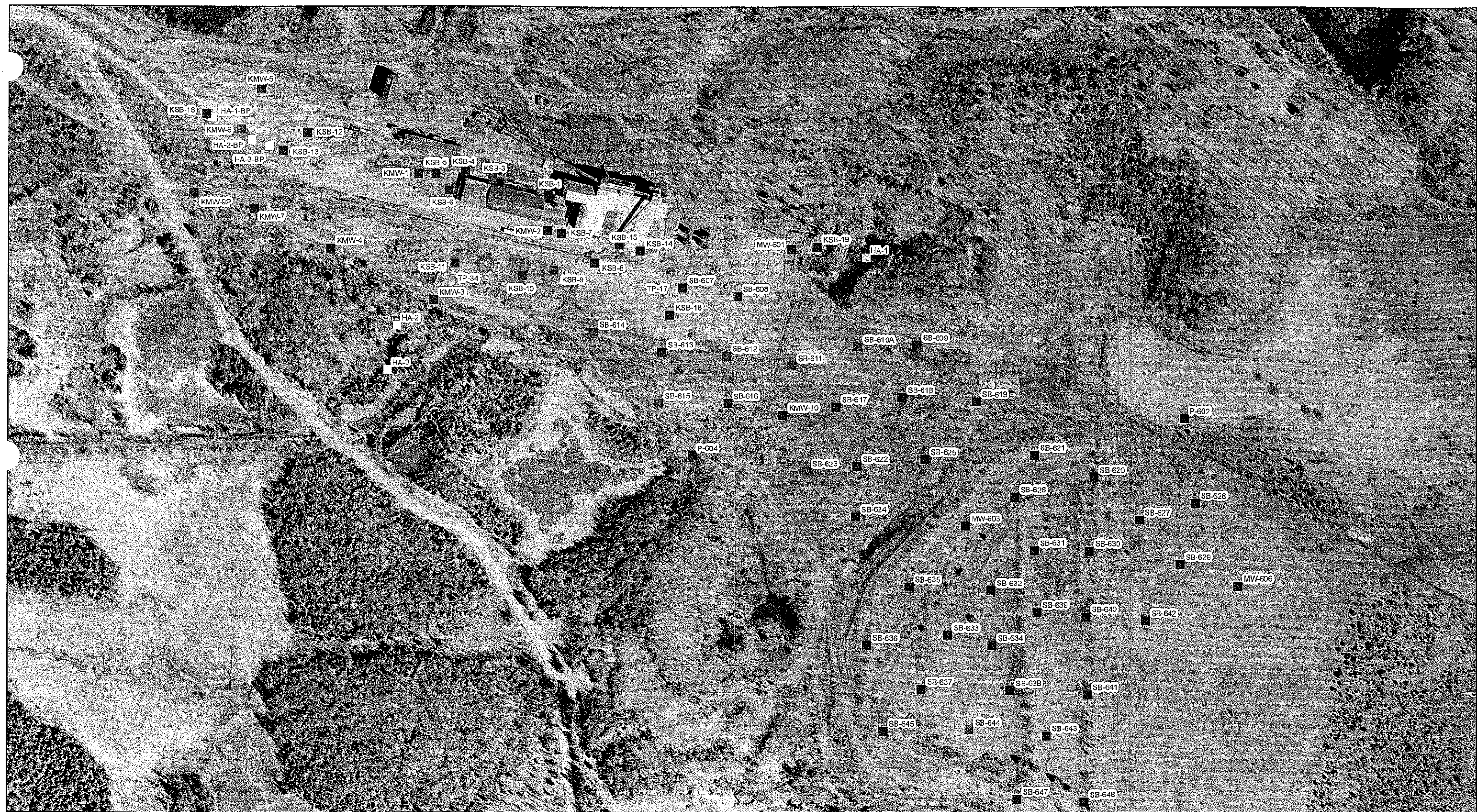
Scale: 0 150 300 Feet

Date: AUGUST 2007

Prepared by: DAT

Project No: 06W003





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**LEGEND**

Soil Sample Location - Not Sampled for Parameter

Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 3.4 mg/kg)

Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 3.4 mg/kg)

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Eagle Minerals

**FIGURE 5-33**  
HUMBOLDT MILL PROJECT - PHASE II ESA  
SOIL SAMPLE LOCATIONS  
LITHIUM IN SOIL

Scale: 0 150 300 Feet

Date: AUGUST 2007

Prepared by: DAT

Project No: 06W003

August 1, 2007





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#### LEGEND

- Soil Sample Location - Not Sampled for Parameter
- Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 8,000 mg/kg)
- Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 8,000 mg/kg)



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#### FIGURE 5-34 HUMBOLDT MILL PROJECT - PHASE II ESA SOIL SAMPLE LOCATIONS MAGNESIUM IN SOIL

Scale: 0 150 300 Feet	Date: AUGUST 2007
Prepared by: DAT	Project No: 06W003





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**LEGEND**

Soil Sample Location - Not Sampled for Parameter

Soil Sample Location - Sample Below Drinking Water Protection Criteria (< 1.5 mg/kg)

Soil Sample Location - Sample Above Drinking Water Protection Criteria (> 1.5 mg/kg)

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CHECKED BY: JSL DATE: AUG. '07

APPROVED BY: SVD1 DATE: AUG. '07

APPROVED BY: DATE:

**Kennecott Eagle Minerals**

**FIGURE 5-35**

**HUMBOLDT MILL PROJECT - PHASE II ESA**

**SOIL SAMPLE LOCATIONS**

**MOLYBDENUM IN SOIL**

Scale: 0 150 300 Feet

Date: AUGUST 2007

Prepared by: DAT

Project No: 06W003